Using the Sensory Learning Kit

Learning Media Assessments in Action
Graduating: SLK skill levels

- **Attention: What is it like?**
  - 0 through 4 months
    - Sensing and acting to discover potentials orally

- **Exploration: What can I do with it?**
  - 4 through 9 months
    - Sensing and acting to discover potentials orally and manually

- **Function: What do other people do with it?**
  - 9 through 24 months
    - Sensing and acting to achieve a specific goal bi-manually and orally
Skills at the exploration level

• Cognition
  – Exploration schemes expand (behaviors are intentional, but used somewhat randomly)
  – Object permanence and search
  – Cause and effect (body/object)
  – Imitation

• Communication, social and motor from appropriate developmental curriculum and specialists in area
Skills at the function level

• Cognition
  – Means ends (problem solving, tool use, including adaptive switches)
  – Spatial relationships (mapping, body to object alignment, object to object alignment for precise placement)
Deciding where to start
Step 1 (SLS)

• Review existing information about physical and sensory functioning
  – Assessment folder
  – FIE reports
    • SLP, OT, PT, AT, V, A, etc.
  – Medical reports
  – Parent interview
Deciding where to start
Step 2 (ASP)

• Look at arousal states
  – If the learner shows typical levels of alertness, proceed to the next step
  – If the learner shows atypically high levels of extended states (sleepy/drowsy/fussy/agitated), assess arousal states
    • Is there a typical pattern of arousal related to time of day?
    • Are there media, ambient environmental and social factors related to certain states?
Deciding where to start
Step 3 (SRR)

• Look at responses to sensory input in each sensory channel

• Assess channels related to
  – positive and negative reactions to input (summary by channel in SLG)
  – response delays (summary by channel in SLG)
  – response levels: attention, exploration, function (summary by channel in SLG)
Skills at attention level

• Cognition
  – anticipation (associative memory, precursor to cause/effect)
  – oral exploration (reflexive grasp may be used to bring object to mouth)

• Communication/social
  – facial expression, vocalization, movements used to make things go away or come back (precursor to refuse/request)
  – eye gaze and vocalizations used to maintain joint attention with partner (precursor to everything)
Designing instruction
Step 1 (App/Aver list)

• Choose learning media items
  – Items from appetite list with strongest responses
  – Use items as topics for activities
    • Vibration becomes topic for “mat game” routine
    • Lotion becomes topic for lotion routine
    • Mirror becomes topic for grooming routine
Mary

• Appetites
  – Bells
  – Music player
  – Vibrating pad
  – Paint rollers
  – Lotion
  – Wax paper
  – Singing

• Aversions
  – Rocking
  – Swing
  – Pudding
  – Lollipops
  – Water bed
  – All strong odors
Designing instruction
Step 2 (Lesson Plan Worksheet)

- Decide
  - Where the activity will take place
  - How often it will occur (minimum 1x daily)
  - Who will teach
  - What materials will be used
  - How the student will be positioned
Mary lesson plan

- Routine name: Lotion
- Location: classroom, big blue foam chair
- Object symbol: lotion bottle
- Partner: Ray
- Time: 8:30 and 1:45
- Level: Exploration
- Materials: Jergen’s aloe E, now tub, finished basket
Designing instruction
Step 3 (LP Worksheet)

• Script the step sequence
  – Opening (use an object to label the activity)
  – Write step sequence from learner’s point of view (don’t worry about independent performance)
  – No more steps than the learner can remember
  – Closing (clear signal that the activity is finished)
Mary’s lotion routine steps

1. Take bottle from now tub
2. Go to foam chair
3. Get in best position
4. Smell lotion
5. Touch bottle
6. Help squeeze
7. Get rubbed
8. Request repeat on other hand
9. Repeat 5,6,7
10. Put bottle in finished basket
Designing instruction
Step 4 (LP Worksheet)

• Embed IEP objectives
  – Look for steps in the routine related to communication, social, and motor skills
  – Embed one objective for every three steps, at most (distributed trials)
  – A sequence of repeating steps provides practice and is desirable when practical
Mary’s lotion routine embedded IEP objectives

• Objectives added sequentially over time
  – Smell lotion
    • Cognition: show anticipation of next step by extending fingers
  – Touch lotion
    • Motor: use lateral motion to explore texture of bottle
  – Help squeeze
    • Cognitive: imitate motion of partner’s hand
  – Request repeat on other hand
    • Communication: use non-conventional gesture to request desired action or object
Designing instruction
Step 5 (LP Worksheet)

• Plan accommodations, modifications, and supports

• Write as little as possible. If some acc/mod/sups are standard (hand-under-hand support) do not write them every time. If they are unique to the step, make a note (foam grip on toothbrush)
Mary’s lotion routine
acc/mod/sups

• Go to foam chair
  – One minute recovery time, no activity

• Get in best position
  – Pillow behind shoulders

• Smell lotion
  – Jergen’s aloe E only!

• Request repeat on other hand
  – Hold palm under Mary’s fingertips, wait at least 15 seconds
Designing instruction
Step 6 (LP Worksheet)

• Plan documentation
  – When
    • Schedule (2 times weekly)
    • Every time hard to do, may be less reliable
    • If intermittent, consecutive trial wording in IEP must be considered
    • What kind: yes/no, frequency, duration, anecdotal

• Take documentation on IEP steps only
Mary’s lotion routine documentation (1x daily)

- **Smell lotion**
  - Show anticipation by extending fingers: +/-

- **Touch bottle**
  - Lateral movement: + with duration/-

- **Help squeeze**
  - Imitate motion: +/-

- **Request repeat**
  - Non-conventional gesture: +/-
Designing instruction
Step 7 (Diagnostic teaching)

• Appointed partner goes through routine with learner providing maximum assistance
• Team members watch, in person or by video, to evaluate effectiveness of acc/mod/sups, pacing, etc.
• Team revises routine
• Teaching begins, team members monitor
Teaching

- Attention routines may stand alone, or may be done as a warm up for a higher level routine
- Learners with severe motor impairments participate by initiating steps of their routines
  - Initiation may be leaning toward item, extending fingers or tongue, looking back and forth between partner and item, vocalizing, etc.
  - Partners must expect a response and then wait for initiation
  - After the learner has done all he can do, the partner helps him execute the rest of the step
Graduating to the next sensorimotor level

• Begin instruction at the learner’s comfort level (the SSR level with the highest number of responses)

• When the learner is performing at a high level on several routines at his starting level, add a new routine at the next level

• When the learner is doing well with that one, add more

• High level of performance is indicated by
  – Anticipating next step in routine
  – Initiating appropriate action for level (exploration scheme or function)
Graduating to Preoperational

• Anticipation calendars are used with exploration level routines to begin the process of learning to use whole objects as symbols for activities
• Sequence calendars may be introduced at the function level
• When the learner can use several object symbols meaningfully in his calendar, he is ready to move on to preoperational level skills. (SAM: Symbols and Meaning)